c.) Amendment to the Claims

1. (Currently Amended) A retroreflective article comprising plural triangular-pyramidal cube-corner retroreflective element pairs formed of parallel V-shaped groove groups (x, x, x,..., y, y, y,..., and z, z, z,...) from three directions of x direction, y direction, and z direction and set on a common plane (S-S') decided defined by base line groups of the parallel V-shaped groove groups, in which

one-side groove angle (GLx, GRx, GLy, GRy, GLz, or GRz) formed between

a cross line between

a plane vertical to the common plane (S-S') and a V-groove vertical plane (Svx, Svy, or Svz) which includes the base line of a V-shaped groove and perpendicular to said the common plane (S-S'), and a reflective lateral face (a1, b1, c1, a2, b2, or c2), a plane vertical to the common plane (S-S') and to a V-groove vertical plane (Svx, Svy, or Svz) which includes the base line of a V-shaped groove and is vertical to the common plane (S-S'), and a reflective lateral face (a1, b1, c1, a2, b2, or c2) containing the base line of the V-shaped groove

and the V-groove vertical plane

does not form a constant angle in the reflective lateral face but the lateral face forms a curved and/or multiple surface.

- 2. (Previously Presented) The retroreflective article according to claim 1, wherein at least one reflective lateral face for constituting the triangular-pyramidal cube-corner retroreflective element pairs, the one-side groove angle (GLx, GRx, GLy, GRy, GRz, or GRz) does not form a constant angle with the maximum deviation of 0.0001 to 0.1° from a normal one-side groove angle for forming a cube corner and a reflective lateral face forms a curved and/or multiple surface.
- 3. (Previously Presented) A retroreflective article according to claim 1 or 2, wherein the internal angle of one of bottom-plane triangles formed of three bottom planes constituting the reflective elements ranges between 35 and 75°.
- 4. (Previously Presented) The retroreflective article according to claim 3, wherein the internal angle of one of bottom-plane triangles formed of three base lines constituting the reflective elements ranges between 45 and 70°.
- 5. (Previously Presented) The retroreflective article according to claim 4, wherein the depth of a plane (Sx, Sy, or Sz) formed by the base line group of at least one-directional V-shaped groove constituting the reflective elements is different from the depth of other planes.

- 6. (Previously Presented) The retroreflective article according to claim 5, wherein an x-directional V-shaped groove constituting the reflective elements does not pass through the intersects (A and B) of y- and z-directional V-shaped grooves and is formed at a position having an offset (Δx) from a straight line connecting intersects A and B, the triangular-pyramidal cube-corner retroreflective element pairs are asymmetric pairs.
- 7. (Withdrawn) A retroreflective article comprising plural triangular-pyramidal cube-corner retroreflective element pairs formed of V-shaped groove groups (x, x, x,..., y, y, y,..., and z, z, z,...) arranged at equal intervals from three directions and set on a common plane (S-S') decided by base line groups of the V-shaped grove groups, in which the base line constituting any-directional V-shaped groove in the retroreflective element pairs is a nonlinear base line which does not form a linear trajectory and the reflective lateral face formed of the V-shaped groove forms a curved and/or multiple surface.
- 8. (Withdrawn) The retroreflective article according to claim 7, wherein a nonlinear factor (fx, fy, or fz) specified by the maximum distance between the intersect of a vertical line from the both-end straight line connecting both ends of the nonlinear base line to the nonlinear base line and the nonlinear side and the both-end

straight line ranges between 0.0001L and 0.05L when assuming the length of the both-end straight line as L.

- 9. (Withdrawn) The retroreflective article according to claim 7 or 8, wherein the trajectory of the nonlinear base line includes at least one curved line selected from a function obtained from a circular arc, trigonometric function (sine curve, cosine curve, or tangent curve), inverse trigonometric function, elliptic function, hyperbolic function, and function obtained by combining any of these functions.
- 10. (Withdrawn) The retroreflective article according to claim 7 or 8, wherein the trajectory of the nonlinear base line is shown by a broken line obtained by combining straight lines.
- 11. (Withdrawn) The retroreflective article according to claim 9, wherein a one-side groove angle (GLx, GRx, GLy, GRy, GLz, or GRz) formed of a line decided when a plane vertically intersecting with the both-end straight line intersects with the reflective lateral face and a V-groove vertical plane (Ux, Uy, or Uz) vertical to a common plane (S-S') and including the both-end straight line do not form a constant angle with the maximum deviation of 0.0001 to 0.1° from a normal one-side groove angle for forming a cube corner or a reflective lateral face does not form a plane.

- 12. (Withdrawn and Currently Amended) The retroreflective article according to claim 11, wherein characterized in that an internal angle of a base line triangle formed of the both-end straight line connecting both ends of base lines of three reflective lateral faces constituting the reflection elements ranges between 35 and 75°.
- 13. (Withdrawn) The retroreflective article according to claim 12, wherein an internal angle of a base line triangle formed of the both-end straight line connecting both ends of base lines of three reflective lateral faces constituting the reflection elements ranges between 45 and 70°.
- 14. (Withdrawn) The retroreflective article according to claim 13, wherein the depth of at least one of planes (Sx, Sy, or Sz) formed of each base line group of the three-directional V-shaped groove groups (x, x, x,..., y, y, y,..., and z, z, z,...) is different from the depth of other planes.
- 15. (Withdrawn) The retroreflective article according to claim 13, wherein an x-directional V-shaped groove does not pass through the intersect (A or B) between y-directional and z-directional V-shaped grooves and is formed at a position having an offset (Δx) shown by the maximum distance between the x-directional groove

and a straight line connecting the intersects A and B, and the triangular-pyramidal cubecorner retroreflective element pair is an asymmetric pair.

- 16. (Withdrawn) The retroreflective article according to claim 10, wherein a one-side groove angle (GLx, GRx, GLy, GRy, GLz, or GRz) formed of a line decided when a plane vertically intersecting with the both-end straight line intersects with the reflective lateral face and a V-groove vertical plane (Ux, Uy, or Uz) vertical to a common plane (S-S') and including the both-end straight line do not form a constant angle with the maximum deviation of 0.0001 to 0.1° from a normal one-side groove angle for forming a cube corner or a reflective lateral face does not form a plane.
- 17. (Withdrawn and Currently Amended) The retroreflective article according to claim 16, wherein characterized in that an internal angle of a base line triangle formed of the both-end straight line connecting both ends of base lines of three reflective lateral faces constituting the reflection elements ranges between 35 and 75°.
- 18. (Withdrawn) The retroreflective article according to claim 17, wherein an internal angle of a base line triangle formed of the both-end straight line connecting both ends of base lines of three reflective lateral faces constituting the reflection elements ranges between 45 and 70°.

- 19. (Withdrawn) The retroreflective article according to claim 18, wherein the depth of at least one of planes (Sx, Sy, or Sz) formed of each base line group of the three-directional V-shaped groove groups (x, x, x,..., y, y, y,..., and z, z, z,...) is different from the depth of other planes.
- 20. (Withdrawn) The retroreflective article according to claim 18, wherein an x-directional V-shaped groove does not pass through the intersect (A or B) between y-directional and z-directional V-shaped grooves and is formed at a position having an offset (Δx) shown by the maximum distance between the x-directional groove and a straight line connecting the intersects A and B, and the triangular-pyramidal cubecorner retroreflective element pair is an asymmetric pair.
- 21. (Currently Amended) A retroreflective article, said retroreflective article comprising:
- (i) plural triangular-pyramidal cube-corner retroreflective element pairs formed of parallel V-shaped groove groups (x, x, x,..., y, y, y,..., and z, z, z,...) from three directions of x direction, y direction, and z direction and set on a common plane (S-S') decided defined by base line groups of the parallel V-shaped groove groups, in which

one-side groove angle (GLx, GRx, GLy, GRy, GLz, or GRz) formed

a cross line between

between

a plane vertical to the common plane (S S') and a V groove vertical plane (Svx, Svy, or Svz) which includes the base line of a V shaped groove and perpendicular to said the common plane (S S'), and a reflective lateral face (a1, b1, c1, a2, b2, or c2), a plane vertical to the common plane (S-S') and to a V-groove vertical plane (Svx, Svy, or Svz) which includes the base line of a V-shaped groove and is vertical to the common plane (S-S'), and a reflective lateral face (a1, b1, c1, a2, b2, or c2) containing the base line of the V-shaped groove

and the V-groove vertical plane

does not form a constant angle in the reflective lateral face but the lateral face forms a curved and/or multiple surface, or

(ii) plural triangular-pyramidal cube-corner retroreflective element pairs formed of V-shaped groove groups (x, x, x,..., y, y, y,..., and z, z, z,...) arranged at equal intervals from three directions and set on a common plane (S-S') decided by base line groups of the V-shaped grove groups, in which the base line constituting any-directional V-shaped groove in the retroreflective element pairs is a nonlinear base line which does not form a linear trajectory and the reflective lateral face formed of the V-shaped groove forms a curved and/or multiple surface.